

Build Tools

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1. Gnu Make

Doc Writer <christian.popescu@outlook.com> v 1.0, 2019-12-17 :toc:

GNU Make is a tool which controls the generation of executables and other non-source files of a program from the program's source files.

2. Apache Maven

Doc Writer <christian.popescu@outlook.com> v 1.0, 2020-02-17 :toc:

2.1. Introduction

Apache Maven is a software project management and comprehension tool. Based on the concept of a project object model (POM), Maven can manage a project's build, reporting and documentation from a central piece of information.

[Apache Maven site](#)

2.2. Useful commands

List all the dependencies of one project.

```
mvn dependency: tree
```

Install sources for the dependencies to be available for debugging.

```
mvn dependency: sources
```

Modify POM file to download sources by default.

```
<build>
  Ê   <plugins>
  Ê     <plugin>
  Ê       <groupId>org.apache.maven.plugins</groupId>
  Ê       <artifactId>maven-eclipse-plugin</artifactId>
  Ê       <configuration>
  Ê         <downloadSources>true</downloadSources>
  Ê         <downloadJavadocs>true</downloadJavadocs>
  Ê       </configuration>
  Ê     </plugin>
  Ê   </plugins>
</build>
```

Create Eclipse files for import (.classpath and .project)

```
mvn eclipse:eclipse
```